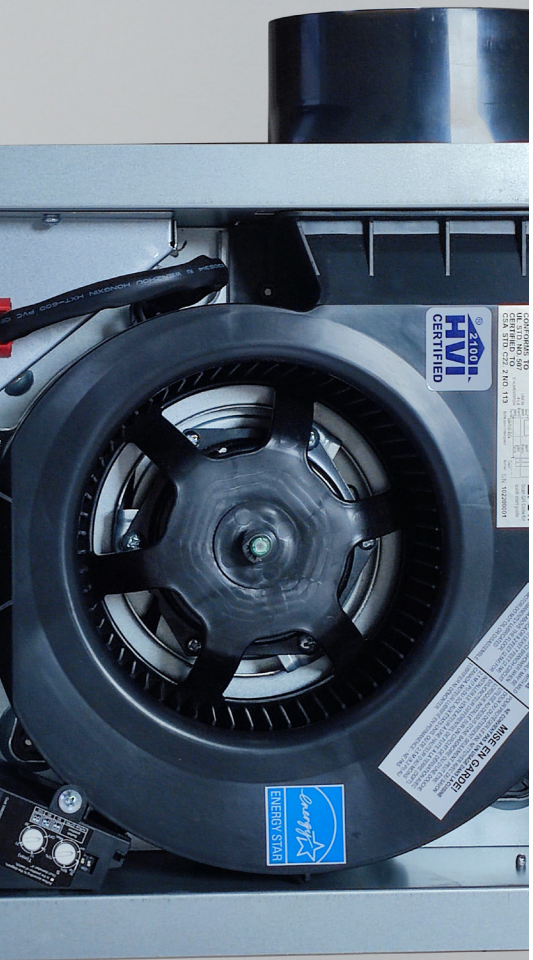
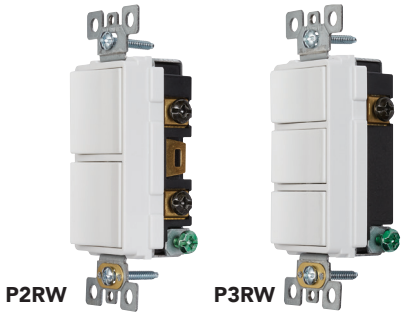
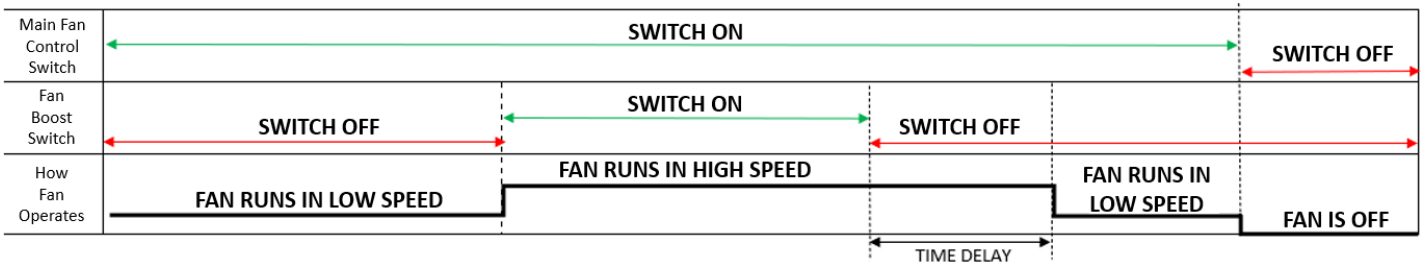


LP510R/LP510RSL QUICK START GUIDE
WALL SWITCH OPERATION

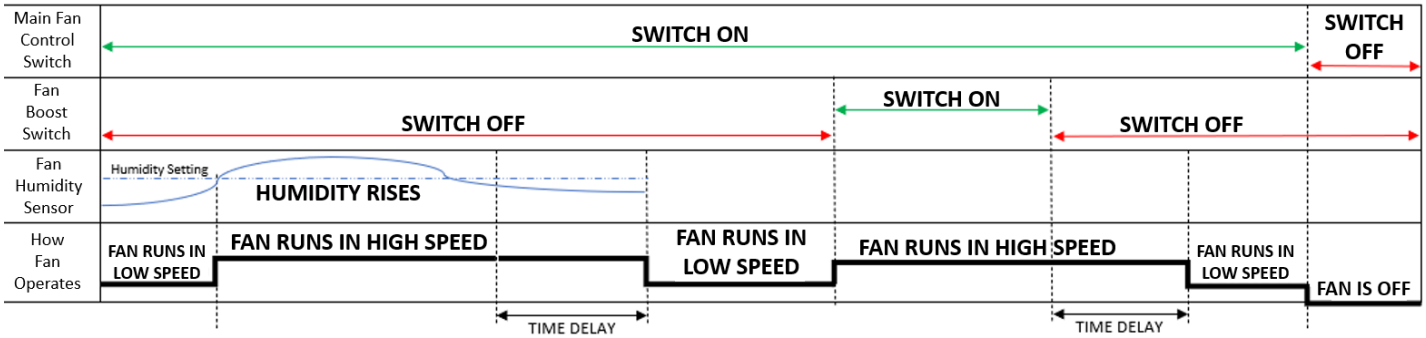
It is recommended that a 2-rocker switch is installed in the wall for the LP510R fan model, and a 3-rocker switch is installed for the LP510RSL fan model. Switches (pictured right) are not included with the fan units. Humidity sensing is a built-in feature for the LP510RSL fan and does not require a wall switch for functionality.



LP510R Lo-Profile 50-80-100 Selectable CFM & Continuous Run



LP510RSL Lo-Profile 50-80-100 Selectable CFM, Continuous Run, Humidity Sensing



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LP510R/LP510RSL QUICK START GUIDE
SETTINGS

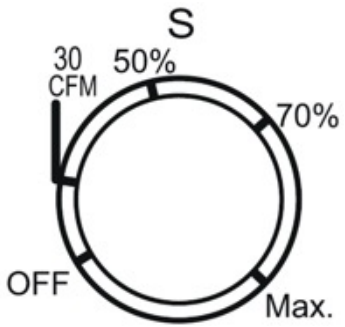
LP510R/ LP510RF

LP510RSL

HIGH SPEED SETTING SWITCH

Switch position	1 2	1 2	1 2
Airflow(CFM)	50	80	100

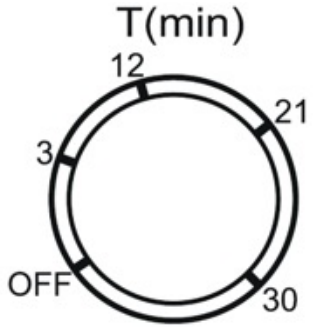
Sets high speed Boost airflow level to 50, 80, or 100 CFM.



LOW SPEED SETTING DIAL

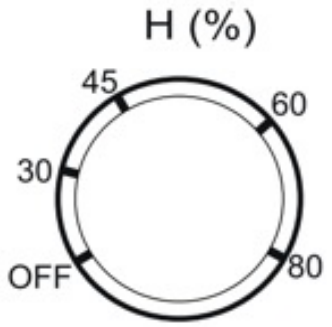
Sets low speed continuous airflow level from 30 CFM at the lowest setting up to the air flow rate of the high speed boost airflow. % Setting is based on high speed boost airflow.

50% of 80 CFM = 40 CFM continuous



TIME DELAY SETTING DIAL

Sets time delay level for LP510R model from 3 to 30 minutes and will switch the fan to the low-speed setting after the Boost switch is turned off for the set period. For LP510RSL the time delay is factory set to 20 minutes.



HUMIDITY SETTING DIAL

Sets humidity point for the LP510RSL model from 30% to 80% humidity and will switch the fan to the high-speed setting when the humidity in the room reaches the set level. Time delay is factory set to 20 minutes

LP510R/LP510RSL QUICK START GUIDE
TROUBLESHOOTING FAQ

Why is there a delay when I turn on my fan to low speed continuous airflow mode?

- The fan system is sensing the air pressure in the ductwork and then adjusting to corresponding fan speed. This process can take about 10 seconds.

When I flip on the Control Switch on my wall, my fan does not turn on.

- First, verify the function of your wall switches. Starting with both wall switches in the off position, flip the first switch on. If the fan begins to run after approximately 10 seconds, this is your control switch. If the fan does not turn on, this is your boost switch.
- If the control switch still does not turn on the fan, the continuous run feature settings may need to be adjusted. First, switch the power to the fan off at the service panel and lock or mark the disconnect with a warning tag and refer to instruction manual to adjust continuous airflow setting. If the dial is pointing directly at or below the 30 CFM setting, the continuous run feature is turned off and the fan will not operate in continuous run mode.

My humidity sensing fan (LP510RSL) does not boost up to high speed mode when I turn my shower on.

- If the fan is located away from the shower area, the humidity point may not be triggered and the humidity setting may need to be adjusted to a lower level. First, switch the power to the fan off at the service panel and lock or mark the disconnect with a warning tag and refer to your instruction manual to adjust the humidity sensing rating.

My humidity sensing fan (LP510RSL) turns on to high speed boost mode too often.

- The humidity sensor in the fan responds to either a rapid increase in humidity or the humidity in the room has gone above the user-adjustable set point. If the fan continuously responds to changing environmental conditions, the humidity setting may need to be increased. First, switch the power to the fan off at the service panel and lock or mark the disconnect with a warning tag and refer to your instruction manual to adjust the humidity sensing rating.

Why does my humidity sensing fan (LP510RSL) not function during some seasons and weather changes?

- Temperature changes in a room due to a change in seasons and weather may cause the humidity sensor values to change. If this happens, follow the steps above to adjust the humidity setting accordingly.

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If the fan continuous to not operate after adjusting, contact Broan Technical Support for further assistance.

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